

Rabbit HCN4 Polyclonal Antibody | anti-HCN4 antibody

Anti-HCN4 Antibody Picoband

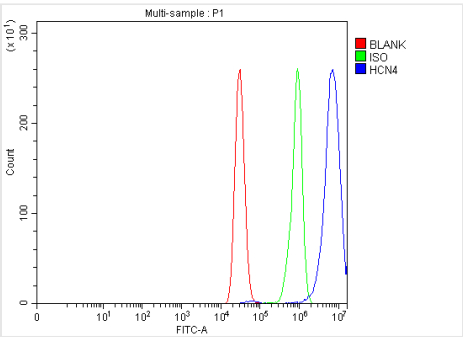
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126208	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

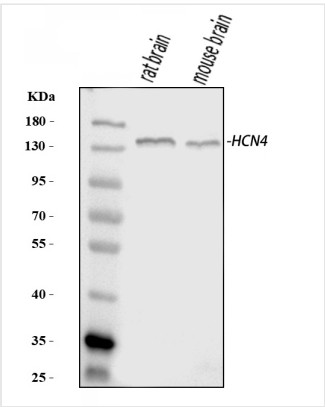
HCN4; Polyclonal Antibody; Anti-HCN4 Antibody Picoband; anti-HCN4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-HCN4 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human HCN4 recombinant protein (Position: H909-L1203).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of MCF-7 cells using anti-HCN4 antibody (AAA126208).Overlay histogram showing MCF-7 cells stained with AAA126208 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HCN4 Antibody (AAA126208, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of HCN4 using anti-HCN4 antibody (AAA126208).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: rat brain tissue lysates,Lane 2: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HCN4 antigen affinity purified polyclonal antibody (#AAA126208) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for HCN4 at approximately 140 kDa. The expected band size for HCN4 is at 129 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-HCN4 antibody	Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 4 is a protein that in humans is encoded by the HCN4 gene. This gene encodes a member of the hyperpolarization-activated cyclic nucleotide-gated potassium channels. The encoded protein shows slow kinetics of activation and inactivation, and is necessary for the cardiac pacemaking process. This channel may also mediate responses to sour stimuli. Mutations in this gene have been linked to sick sinus syndrome 2, also known as atrial fibrillation with bradyarrhythmia or familial sinus bradycardia. Two pseudogenes have been identified on chromosome 15.
Product Categories/Family for anti-HCN4 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885407
NCBI GeneID	10021
NCBI Accession #	NP_005468.1
NCBI GenBank Nucleotide #	NM_005477.2
UniProt Accession #	Q9Y3Q4; Q9UMQ7
Molecular Weight	129,042 Da
NCBI Official Full Name	potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 4
NCBI Official Synonym Full Names	hyperpolarization activated cyclic nucleotide gated potassium channel 4
NCBI Official Symbol	HCN4
NCBI Official Synonym Symbols	SSS2
NCBI Protein Information	potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 4

UniProt Protein Name	Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 4
UniProt Gene Name	HCN4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hcn4-antibody-flow-cytometry-western-blot-elisa/126208>